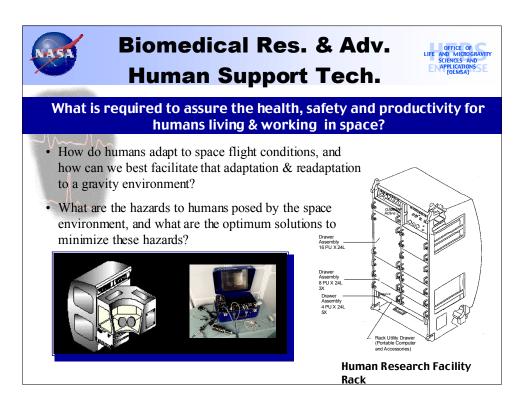
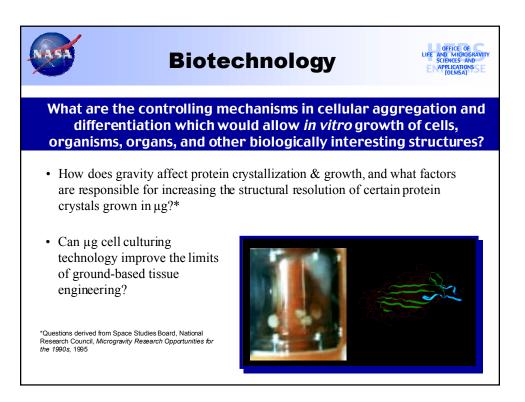


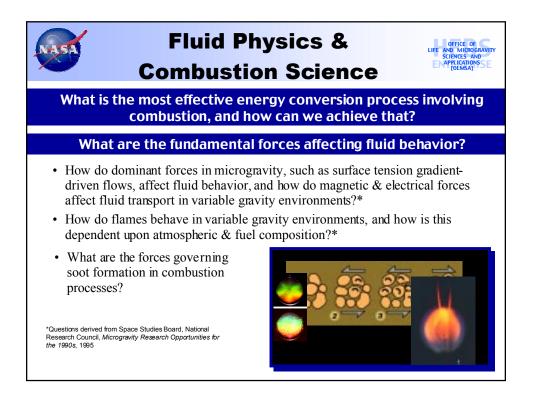
- Through what mechanisms do plants & animals sense and respond to gravity, and what is the gravitational threshold for this perception to occur?*
- What role does gravity play in the development of gravity-sensing vestibular systems in animals?*
- Are there developmental processes in plants and animals that depend upon gravitational stimuli?*

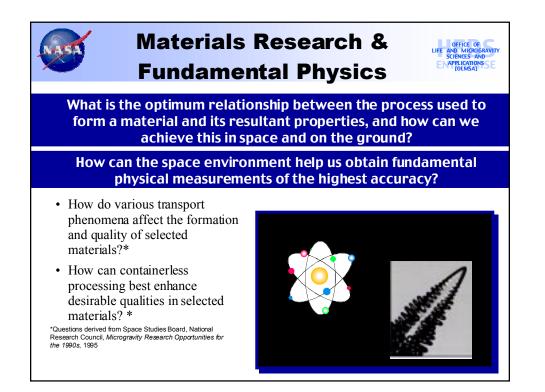
*Questions derived from Space Studies Board, National Research Council, A Strategy for Research in Space Biology and Medicine in the New Century, 1998













Biologically-based Technologies for Exploration Smart Materials & Human-centered Systems Structures Cognitive task analysis Anticipatory research Collaborative Innovative human-machine Curious ٠ interfaces Self-modeling AERCam Portable digital assistants & Adaptive • wearable computing research Self-repairing • *Areas of emphasis derived from Space Studies Board, National Research Council, Report of the Workshop on Biologically-based Technologies for Space Exploration, 1998 • Portable Sensor-fusion & sensory-• Electronic Nose guided motor control Component

